

bar. Masse kg	E. Radius m	E. Radius kpc	Volumen	Masse kg	m. Radius m	O. Radius kpc	O. Radius m	Faktor	x hoch n	Int. Masse kg	v rot. E	Z. Masse	v rot. G	v rot. ges.	O. Radius kpc	Dichte
9,48400E+41	6,24578E+22	2024,12058	2,93800E+58	9,48400E+41	6,24578E+22	1	3,08568E+19	0,60000	0,10108	9,84577E+39	3,52419E+03	9,84577E+39	1,45932E+05	1,44957E+05	1	5,02677E-22
			2,35040E+59	9,48400E+41	6,24578E+22	2	6,11738E+19	0,55000	0,02224	2,10925E+40	6,58023E+03	2,10925E+40	1,51034E+05	1,57615E+05	2	1,34610E-20
			7,93260E+59	9,48400E+41	6,24578E+22	3	9,25703E+19	0,45000	0,05332	5,05698E+40	6,17353E+03	5,05698E+40	1,90946E+05	1,97122E+05	3	9,56237E-23
	G. Radius m	G. Radius kpc	1,88032E+60	9,48400E+41	6,24578E+22	4	1,23427E+20	0,45000	0,06069	5,75589E+40	6,64532E+03	5,75589E+40	1,76422E+05	1,86067E+05	4	4,59168E-23
			3,67250E+60	9,48400E+41	6,24578E+22	5	1,54284E+20	0,40000	0,09059	8,59182E+40	1,00963E+04	8,59182E+40	1,92790E+05	2,02888E+05	5	3,50925E-23
			6,34908E+60	9,48400E+41	6,24578E+22	6	1,85141E+20	0,36000	0,12300	1,15045E+41	1,07085E+04	1,15045E+41	2,05065E+05	2,15777E+05	6	2,75719E-23
	1,60702E+21	52,07390	1,00773E+61	9,48400E+41	6,24578E+22	7	2,15997E+20	0,32000	0,16309	1,51982E+41	1,09920E+04	1,51982E+41	2,18521E+05	2,29815E+05	7	2,30238E-23
			1,50428E+61	9,48400E+41	6,24578E+22	8	2,46854E+20	0,30000	0,19013	1,90322E+41	1,23152E+04	1,90322E+41	2,20803E+05	2,31110E+05	8	1,70811E-23
			2,14180E+61	9,48400E+41	6,24578E+22	9	2,77711E+20	0,28000	0,21950	2,08177E+41	1,35008E+04	2,08177E+41	2,23677E+05	2,37178E+05	9	1,45798E-23
			2,93800E+61	9,48400E+41	6,24578E+22	10	3,08568E+20	0,27000	0,23841	2,26104E+41	1,53462E+04	2,26104E+41	2,21147E+05	2,36493E+05	10	1,15438E-23
			3,91048E+61	9,48400E+41	6,24578E+22	11	3,39425E+20	0,26000	0,25772	2,44417E+41	1,71778E+04	2,44417E+41	2,10855E+05	2,29033E+05	11	9,37548E-24
			5,07686E+61	9,48400E+41	6,24578E+22	12	3,70261E+20	0,24000	0,29208	2,70702E+41	1,89374E+04	2,70702E+41	2,01879E+05	2,19918E+05	12	8,18454E-24
			6,45479E+61	9,48400E+41	6,24578E+22	13	4,01138E+20	0,23000	0,31316	2,97003E+41	1,97438E+04	2,97003E+41	1,93959E+05	2,13702E+05	13	6,90198E-24
	S. Radius m	min. Masse kg	8,06187E+61	9,48400E+41	6,24578E+22	14	4,31995E+20	0,22000	0,33479	3,17518E+41	2,14189E+04	2,17480E+41	1,86903E+05	2,08332E+05	14	5,90778E-24
		S. Radius kpc	9,19157E+61	9,48400E+41	6,24578E+22	15	4,62852E+20	0,20000	0,37495	3,55601E+41	2,19548E+04	2,26104E+41	1,80566E+05	2,02520E+05	15	5,37933E-24
	1,03616E+20	2,9879E+41	1,20340E+62	9,48400E+41	6,24578E+22	16	4,93708E+20	0,20000	0,37982	3,60220E+41	2,46593E+04	2,26104E+41	1,74832E+05	1,99491E+05	16	4,49001E-24
		26.04	1,44344E+62	9,48400E+41	6,24578E+22	17	5,24565E+20	0,20000	0,38445	3,64615E+41	2,75025E+04	2,26104E+41	1,69612E+05	1,97114E+05	17	3,78902E-24
			1,71344E+62	9,48400E+41	6,24578E+22	18	5,55422E+20	0,15000	0,49244	4,67032E+41	2,40717E+04	2,26104E+41	1,64833E+05	1,89905E+05	18	4,08855E-24
			2,01517E+62	9,48400E+41	6,24578E+22	19	5,86279E+20	0,10000	0,62698	5,94625E+41	2,10855E+04	2,26104E+41	1,60437E+05	1,81502E+05	19	4,42311E-25
			2,35040E+62	9,48400E+41	6,24578E+22	20	6,17331E+20	0,08000	0,69117	6,55504E+41	2,11738E+04	2,26104E+41	1,56374E+05	1,77498E+05	20	4,18335E-24
			2,72088E+62	9,48400E+41	6,24578E+22	21	6,47992E+20	0,05000	0,95759	7,54728E+41	2,02748E+04	2,26104E+41	1,52606E+05	1,72881E+05	21	4,16078E-24
			3,12838E+62	9,48400E+41	6,24578E+22	22	6,78484E+20	0,01000	0,95759	9,06470E+41	1,85268E+04	2,26104E+41	1,49097E+05	1,62274E+05	22	4,34635E-24
			3,57466E+62	9,48400E+41	6,24578E+22	23	7,09706E+20	0,00800	0,96481	1,15030E+42	2,00599E+04	2,26104E+41	1,45820E+05	1,65880E+05	23	3,83965E-24
			4,06149E+62	9,48400E+41	6,24578E+22	24	7,40953E+20	0,00500	0,97807	9,27601E+41	2,15462E+04	2,26104E+41	1,42750E+05	1,64298E+05	24	3,42584E-24
			4,59063E+62	9,48400E+41	6,24578E+22	25	7,71429E+20	0,00300	0,99125	9,40102E+41	2,30832E+04	2,26104E+41	1,39895E+05	1,62934E+05	25	3,07181E-24
			5,16383E+62	9,48400E+41	6,24578E+22	26	8,02372E+20	0,00100	0,99565	9,44232E+41	2,48402E+04	2,26104E+41	1,37149E+05	1,61893E+05	26	2,74232E-24
			5,78287E+62	9,48400E+41	6,24578E+22	27	8,31333E+20	0,00000	1,00000	9,48400E+41	2,66713E+04	2,26104E+41	1,34589E+05	1,61257E+05	27	2,46003E-24
			6,44950E+62	9,48400E+41	6,24578E+22	28	8,63990E+20	0,00000	1,00000	9,48400E+41	2,86836E+04	2,26104E+41	1,32161E+05	1,60844E+05	28	2,20575E-24
			7,16549E+62	9,48400E+41	6,24578E+22	29	8,94847E+20	0,00000	1,00000	9,48400E+41	3,07690E+04	2,26104E+41	1,29862E+05	1,60631E+05	29	1,98535E-24
			7,93260E+62	9,48400E+41	6,24578E+22	30	9,25703E+20	0,00000	1,00000	9,48400E+41	3,29278E+04	2,26104E+41	1,27679E+05	1,60607E+05	30	1,79338E-24
			8,75260E+62	9,48400E+41	6,24578E+22	31	9,56550E+20	0,00000	1,00000	9,48400E+41	3,51939E+04	2,26104E+41	1,25603E+05	1,60762E+05	31	1,62535E-24
			9,62724E+62	9,48400E+41	6,24578E+22	32	9,87397E+20	0,00000	1,00000	9,48400E+41	3,74643E+04	2,26104E+41	1,23625E+05	1,61089E+05	32	1,47176E-24
			1,05583E+63	9,48400E+41	6,24578E+22	33	1,01827E+21	0,00000	1,00000	9,48400E+41	3,98424E+04	2,26104E+41	1,21737E+05	1,61590E+05	33	1,34738E-24
			1,15475E+63	9,48400E+41	6,24578E+22	34	1,04913E+21	0,00000	1,00000	9,48400E+41	4,22936E+04	2,26104E+41	1,19934E+05	1,62277E+05	34	1,23195E-24
			1,25967E+63	9,48400E+41	6,24578E+22	35	1,07999E+21	0,00000	1,00000	9,48400E+41	4,48181E+04	2,26104E+41	1,18208E+05	1,63020E+05	35	1,12935E-24
			1,37075E+63	9,48400E+41	6,24578E+22	36	1,11084E+21	0,00000	1,00000	9,48400E+41	4,74157E+04	2,26104E+41	1,16555E+05	1,63797E+05	36	1,03782E-24
			1,48819E+63	9,48400E+41	6,24578E+22	37	1,14170E+21	0,00000	1,00000	9,48400E+41	5,00965E+04	2,26104E+41	1,14989E+05	1,65056E+05	37	9,55925E-25
			1,61214E+63	9,48400E+41	6,24578E+22	38	1,17256E+21	0,00000	1,00000	9,48400E+41	5,28500E+04	2,26104E+41	1,13465E+05	1,66382E+05	38	8,68425E-25
			1,74279E+63	9,48400E+41	6,24578E+22	39	1,20341E+21	0,00000	1,00000	9,48400E+41	5,56476E+04	2,26104E+41	1,11982E+05	1,67630E+05	39	8,16278E-25
			1,88032E+63	9,48400E+41	6,24578E+22	40	1,23427E+21	0,00000	1,00000	9,48400E+41	5,85379E+04	2,26104E+41	1,10573E+05	1,69111E+05	40	7,56573E-25
			2,02490E+63	9,48400E+41	6,24578E+22	41	1,26513E+21	0,00000	1,00000	9,48400E+41	6,15014E+04	2,26104E+41	1,09217E+05	1,70781E+05	41	7,02554E-25
			2,17671E+63	9,48400E+41	6,24578E+22	42	1,29598E+21	0,00000	1,00000	9,48400E+41	6,45381E+04	2,26104E+41	1,07909E+05	1,72447E+05	42	6,53055E-25
			2,33932E+63	9,48400E+41	6,24578E+22	43	1,32684E+21	0,00000	1,00000	9,48400E+41	6,76479E+04	2,26104E+41	1,06648E+05	1,74294E+05	43	6,09012E-25
			2,50271E+63	9,48400E+41	6,24578E+22	44	1,35770E+21	0,00000	1,00000	9,48400E+41	7,08399E+04	2,26104E+41	1,05425E+05	1,76235E+05	44	5,68425E-25
			2,67725E+63	9,48400E+41	6,24578E+22	45	1,38855E+21	0,00000	1,00000	9,48400E+41	7,40871E+04	2,26104E+41	1,04250E+05	1,78337E+05	45	5,31366E-25
			2,85973E+63	9,48400E+41	6,24578E+22	46	1,41941E+21	0,00000	1,00000	9,48400E+41	7,74164E+04	2,26104E+41	1,03110E+05	1,80527E+05	46	4,97459E-25
			3,05032E+63	9,48400E+41	6,24578E+22	47	1,45027E+21	0,00000	1,00000	9,48400E+41	8,08189E+04	2,26104E+41	1,02007E+05	1,82828E+05	47	4,66377E-25
			3,24919E+63	9,48400E+41	6,24578E+22	48	1,48113E+21	0,00000	1,00000	9,48400E+41	8,42494E+04	2,26104E+41	1,00939E+05	1,85233E+05	48	4,37832E-25
			3,45653E+63	9,48400E+41	6,24578E+22	49	1,51198E+21	0,00000	1,00000	9,48400E+41	8,78433E+04	2,26104E+41	9,99040E+04	1,87747E+05	49	4,11569E-25
			3,67250E+63	9,48400E+41	6,24578E+22	50	1,54284E+21	0,00000	1,00000	9,48400E+41	9,14655E+04	2,26104E+41	9,88995E+04	1,89899E+05	50	3,87937E-25
			3,89729E+63	9,48400E+41	6,24578E+22	51	1,57370E+21	0,00000	1,00000	9,48400E+41	9,51607E+04	2,26104E+41	9,79255E+04	1,93088E+05	51	3,65023E-25
			4,13106E+63	9,48400E+41	6,24578E+22	52	1,60455E+21	0,00000	1,00000	9,48400E+41	9,89291E+04	2,				